Goldberger Named Part of Campaign Finance Committee

by Chris Meid
President Marvin Goldberger has been named on a bipartisan commission that will study the state's campaign finance problems.

The group, which also includes the president of Stanford University, comprises the newly created California Commission on Campaign Financing.

According to its Executive Director, Tracy Weston, the Commission will interview public officials and other experts, conduct research and public opinion surveys, and issue a final report by November of this year.

This report is expected to include possible solutions to questions that will be addressed by the Commission.

The business, legal, academic, and judicial communities are all represented on the Commission, said Weston. "These diverse people have been brought together by a common growing concern over the current system of campaign finance, which is being investigated by legislative candidates, has decreased significantly.

The "most interesting" presented at the first meeting, held on February 28 in Los Angeles, was the idea of public funding in public spending on campaign may be a good solution, the different communities.

The Commission is publicly funded by a grant from the Weingart Foundation, a Los Angeles charity organization, which was originally conceived by a firm of public interest lawyers.

HP Gives Tech $500,000 Worth

Caltech News Bureau

Hewlett-Packard has awarded Caltech equipment worth $528,694 for use in computer science and applied physics courses.

"We are delighted that Hewlett-Packard has donated such a generous amount of equipment to the Institute," said Dr. Geoffrey Fox, dean of the electrical engineering and computer science.

"We are sure that these computers will be of considerable benefit to our students, and we hope that the software developed for our courses will find wide use in academia."

The Hewlett-Packard system consists of 22 color computer systems and supporting equipment, and will be used in an introductory computer science course, an introductory solid-state electronics course, and a solid-state electronics laboratory.

The Hewlett-Packard system will be used by the Commission on Campaign Finance to develop the basic principles of computer science, including modern programming techniques, and in the last two, undergraduates will use the computers to design various electronic devices.

"It is not clear, though, that the hardware will have a significant impact on the software," said Dr. Fox. "We believe that the Hewlett-Packard system will be of considerable benefit to our students, and we hope that the software developed for our courses will find wide use in academia."

The Hewlett-Packard system will include over 800 computers, and when fully implemented in the next three years. These computers, linked to each other and to campus mainframes, will be used in high-speed campus network, will reside primarily in clusters of up to 10 to 20 machines.

Many of these clusters will be used to teach courses, and we hope that the software developed for our courses will find wide use in academia."

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"We are sure that these computers will be of considerable benefit to our students, and we hope that the software developed for our courses will find wide use in academia."

Barish Looks for Monopoles

Caltech News Bureau

Magnetic monopoles, those elusive fundamental particles that represent the basic unit of magnetism, have been the object of futile searches by scientists for over five decades.

The particles, which, unlike familiar magnets, have but a single pole, are of the holy grails of physics. Their discovery would confirm fundamental particle theories, as grails of physics.

"These particles, which, unlike familiar magnets, have but a single pole, are of the holy grails of physics. Their discovery would confirm fundamental particle theories, as grails of physics."

In 1982, in fact, the scientific world was set abuzz by a preliminary report by Stanford researcher Blas Cabrera that a magnetic monopole had been detected. The signal now appears not to have been a monopole. Since then, no further candidates have been detected by a more elaborate instrument built by Cabrera, and scientists now believe a much larger detector will be needed to detect the rare monopole.

One monopole-seeking physicist is Caltech Professor of Physics Barry Barish, who, in addition to studying the conventional ionization-detection method for discovering monopoles, is also taking a highly unusual approach in his quest. Sponsored by the Department of Energy, he and his colleagues are experimenting with ionization detectors, which would attempt to measure the tiny flash of light produced when a monopole passed through a special plastic scintillation detector.

"We theorize that they produce eddy currents that would create an ultrasonic shock wave. By attaching piezoelectric transducers to the conductor, we might be able to detect this high-frequency sound."

"We theorize that they produce eddy currents that would create an ultrasonic shock wave. By attaching piezoelectric transducers to the conductor, we might be able to detect this high-frequency sound."

"We have concluded that a multi-vendor environment will be to Caltech's best advantage, because the different uses of computers envisioned by the faculty in various disciplines correspond to different limitations of currently available hardware," he said. Besides Hewlett-Packard, other manufacturers represented in the project include Data General, Digital Equipment Corporation, Evans & Sutherland, IBM, Tektronix, and Zenith.
The California Tech
FRIDAY, MARCH 30, 1984

The exasperations of student life at Caltech

One Flew Into the Cuckoo's Nest

One Ton had a rough life from the beginning. Her mother called her One because that was how many teeth she was born with. In subsequent years, it was also rumored that it was everything from her I.Q. to her beauty rating. Thus it was most fitting that as One completed high school, she applied to Tech and got accepted.

Freshmen weekend was a blast for One. For once in her life, she felt actually beautiful, not just because both Harry K. Nerd and J.F. Cutthroat asked her to dance at the seven-house mishmash, but simply, in comparison to her company, she truly was. But despite her elation, she had a pressing problem on her mind.

Dinner earlier that evening in Rude-Ox had been frustrating. One found herself challenged with several baffling problems before she was able to partake in its victuals. At first she thought it meant that the students were trying to win a free meal, then much to her dismay, One found that not only had the students already paid for the meals in advance, but that the inquisitors were also being paid for their service.

The steak turned out to resemble shoe leather, and worse of all, there was only a dull butter knife and a bent aluminum fork to attack it with. After wrestling her arm sore, One thought about her problem, "Well, this is an engineering and science research school, someone must have a clever method of attacking this meat! I'll ask tomorrow on my campus tour."

And what a beautiful day it was for a tour! California was amazing. One loved the pink and purple sunset and it was so neat the way the plants all grew in such a controlled and well-behaved way, unlike the nature around where she lived.

As they walked into Seeley's Mud, a couple of scientists were arguing about when their next earthquake would be.

"April fifth is my son's birthday; he'll love it then."

"But quakes never occur within 109 days of Groundhog Day." One interrupted, "Excuse me, what is the best way to eat this steak?"

After examining her sample, the professor who was now confused asked One, "You mean you'd rather eat this rock than study it?"

Next on the trip was Backstair. After getting lost in what appeared to be a hardware store labeled "Baxart!" in the basement, One walked into the first office to ask what the best way to eat her steak was.

The man looked up slowly and sternly and said briskly, "It's not collaborative, nor is it cooperative on this one..." "...hey, that guy's cheating already!"

Amid all of this confusion, One slowly slipped out the back and decided to head towards the mountains for fresh air and a change of pace.

Luckily, she came across the JPL shuttle bus. As the car approached the sentry station, One was properly interrogated.

GUARD: Where is your special badge?

ONE: I don't have one, but I have an important nutrition problem.

GUARD: Then turn back, we only work on problems which are classified as painful and unnutritious to the human system.

ONE: Ah... got it! One, hmm, that's exactly it!"

First Professor: One, one, hmm, that's exactly it!

Second Professor: No, no, it's better as cosh-cosh!

Third Professor: But one is also the contour integral of... One: I'm leaving.

In anticipation of a bit more practical know-how, One headed for the engineering buildings. The moment she entered Steal and announced her problem, several graduate students and professors eagerly gathered in the prospect of a lucrative consulting job. The air quickly became filled with snide and cutting comments as the professors announced their problem, several graduate students and professors eagerly gathered in the prospect of a lucrative consulting job. The air quickly became filled with snide and cutting comments as the competition grew keener for One's attention.

"Why are the T.A.'s here? They are never of help!"

"Let's collaborate or cooperate on this one..."

"...hey, that guy's cheating already!"

Amid all of this confusion, One slowly slipped out the back and decided to head towards the mountains for fresh air and a change of pace.

The discovery of the monopole would constitute the first direct evidence of the validity of Grand Unified Theories, and could also provide a sort of thermometer measuring the temperature of the Big Bang that began the universe. Current theories hold that any existing monopoles could have only been created in the Big Bang, at a temperature of 10^11 degrees Kelvin. The temperature for which there is evidence is 10^10 degrees Kelvin.

Monopole Detector

from page 1

Monopole Detector

Strumming such that we could measure the speed of a particle passing through them. A massive magnetic monopole could penetrate a series of detectors at such a low velocity.

"Such a system might well be cheap enough to cover a large area for substantially less cost than a scintillator array and could allow the display of the elusive monopole signature," said Dr. Barish. "However, the question remains whether this technique could be made sensitive enough. We would have to make the current system more than a hundred times more sensitive before it can be considered as a reasonable alternative, and this may not be possible."

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“Intellectual Resistance”

To the Editors:

Kudos to Brad Marston's March 2, 1984, letter to the editors concerning the Social Science Department at Caltech. I ran into similar unreasoned intellectual resistance last term when I asked the Executive Officer of the Social Science Department if social science credit would be given for a psychology class on abnormal behavior I was planning on taking at the Art Center College of Design through the Caltech–Art Center exchange program. The reply was, "We have the best psychologist on abnormal behavior and there is no reason you shouldn't take it from that person"—even though the instructor at the Art Center has a Ph.D. in Psychology from UCLA. However, due to certain time constraints and academic requirements, it wouldn't be possible for me to take the Caltech class. It was then made clear other classes such as "Microeconomics Theory III" were available. I attended the Art Center class anyway ("general institute credit" was given) and it was far more interesting and challenging than any Caltech social science class I have taken.

Such arrogance is not confined to the Social Science Department. Alas, an unusual number of personal setbacks first term, I was forced to petition to the Undergraduate Academic Standards and Honors Committee for an underload. The petition was denied because it was obvious to the Committee and the Undergraduate Deans that what was really needed was a petition for leave of absence and psychiatric assistance. I refused to be intimidated by such an outrageous claim and asked the Chairperson of UASH to consider an appeal to the dean. I wasn't easy—a person in such an omnipotent position should be readily available, in person, to the students. After a few attempts to explain my situation it became increasingly obvious that Caltech as a whole does not live up to its commitment to the undergraduate students of an unrestricted atmosphere in which to explore science. It was blatantly said over the telephone that an appeal was out of the question. It was also implied that my 3.2 GPA may suffer if I didn't consider the leave of absence. I didn't register second term. Supposedly this decision was reached after conferring with the Deans who suggested that the underload wasn't deserved because it would violate the Honor Code.

How does one defend such actions?

President Goldberger has said, "I hate to see someone graduate from Caltech so turned off about science when they came here just burning with the desire to be a scientist of some sort, and then have them turn their back on it." So I do and if it were not for an excellent psychology class I took elsewhere I would have counted me among the casualties of the antediluvian atmosphere at Caltech.

I challenge the upperclassmen of next year, especially the current first year students, to refuse to be disinterested and intimidated by those professing to be in positions of authority. Refuse to be part of the ubiquitous anti-intellectualism that seems to pervade the so-called "house" at Caltech. Don't use the undergraduate female–male ratio and the academically challenging classes as your scapegoat. If you can conscientiously justify "rotation" in its current form I would like to know how. What strikes me as very tragic is the high degree of social stratification that exists among the undergraduates. Such closed-mindedness I accept as a general ill of society—but Caltech's? Submit your views in the form of a letter to the editors of the California Tech since this affects you, not me.

Sincerely yours,

- Kelly D. Cherry

In order to start third term with a healthy understanding of the Honor System, the Board of Control has asked for the us to reprint a statement concerning the Honor System Booklet. It has come to the attention of the Board that a serious problem exists in some classes. The problem is not cheating on exams but a different kind of cheating: collaboration on homework where it is not allowed. The number of students or the number of points involved makes no difference. Some students who violate the homework policy in a class are receiving unfair advantage of other students and the instructors.

No Shoes, No Shirt, No Slop

To the Editor: A petition signed by 75 people was submitted to Serena and the Master, calling for "enforcement of California state health laws" concerning the wearing of shoes in the south house cafeteria. I address myself to the creators and owners of the club and as a master candidate I ask the Board to think carefully about this decision. It was their decision impressive but misguided. Our concern for Servomation Corporation is not your concern. How do you propose to explain your reason, I find your concern for Servomation Corporations not to be the customer's. If that is your reason, I find your concern for Servomation Corporation impressive but misguided. The rule proposed, dividing Servo from a large fraction of the students, would from our side carry the message "We don't trust you," stifling, I dare say, the level and realistic feedback that the foodservice really needs.

I think you're really concerned for neither the barefoot nor the corporation, but rather for yourselves. If it is simply an aesthetic matter to you, I can understand that, but it falls to you to clearly state your objection and defend your perceived right to dictate the dress of your equals. Caltech is tolerable precisely because every day affairs are handled thoughtfully, from within. Wielding California law selectively based on personal aesthetics is not in the spirit of the Honor System. It is easy to think you want a rule that would not affect you directly and would make your environment more to your liking. Think, though, rules based on the personal aesthetics of a fraction of the temporary residents. Do you really want that happening here?

- Brian Mapes

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good food at reasonable prices
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A Free Root Beer Float to All Freshmen and Sophomores

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Mondays and Tuesdays are Beer Days. Half price on beer.

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3
Cinematech Opens With An Unusual Pair

This Saturday, Cinematech starts off the new term with a pair of quite disparate films. The first, "Only Angels Have Wings," focuses on the life and times of Howard Hawks (at 9:00). The common thread? Are we ready for it? "Adventure?...Romance? That is pretty hard to say.

"Only Angels Have Wings" is an early (1939) Howard Hawks feature film starring Cary Grant, Jean Arthur, and Rita Hayworth. They were guided by one of the great American directors, Howard Hawks (of " Bringing Up Baby" and "The Big Sleep".)

It is an adventure film dealing with a group of pilots, who everyday face their own doubt about the stability of their lives. The only way to come to terms with life's frailty, is to evoke mystical visions of the past. In "St. Xavier over L.A." he depicts the mundane symbolized by the telegraph wires, the present in the pilot's world, and past with the shrines of St. Xavier, which also suggests religious connotations.

"Mysticism is not such a good word," said Swihart. "It suggests religious connotations. Religion is also evoked, as in the nativity scene of a bygone age. Swihart is able to paint the past into the present and the tender innocence of age. Swihart's "No. 10" the twentieth century is very much in evidence by the modern dress worn by the figures, but we sense the tender innocence of the nativity scene of a bygone age. Swihart's "No. 10" is that a great number of his paintings portray parables or are religious offerings, we cannot help but interpret his works in a ethereal light. One of the most obvious reasons for saying this is that a great number of his figures have haloes shining around their heads. In Swihart's "No. 10" the twentieth century is very much in evidence by the modern dress worn by the figures, but we sense the tender innocence of the nativity scene of a bygone age.

An "efficient...sensible," student commented after viewing "St. Xavier over L.A." He was interested in how Swihart juxtaposed the past and the present in his photo collage. Within his architectural landscapes, he uses everyday suburban life to evoke mystical visions of the past.

In "St. Xavier over L.A." he depicts the mundane symbolized by the telegraph wires, the present in the pilot's world, and past with the shrines of St. Xavier, which also suggests religious connotations.

"Architectural landscapes, particularly those in the West and the Midwest, are those that are most familiar to me," said Swihart. "I try to bring my own personal vision to them."

Swihart's "No. 10" the twentieth century is very much in evidence by the modern dress worn by the figures, but we sense the tender innocence of the nativity scene of a bygone age.

A discussion period will follow the screening, and all interested students are invited to participate. The lecture, "Women's Rights," is scheduled for 7:30 in Baxter Lecture Hall, and "Only Angels Have Wings" will be shown at 9:00. The common thread? Are we ready for it? "Adventure...Romance? That is pretty hard to say.

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On the Road

Men's Glee Club Tours Northeast

By Min Su Yun

March 26, 1984

A quiet darkness settled over everyone's face. This is the moment everyone has been looking forward to for this short but tiring campaign. We almost lost some of us in a couple of incidents, but we are all back home with no major casualties. We will carry our weary bodies to New York for the quarter's rest. The sun beyond the horizon gives us our first sight of a beautiful evening sky. Unfortunately, the peace is temporary. A new campaign and a Teddy bear returned classes start.

Caltech's Men's Glee Club composed of 35 men, 1 robot, and 1 Teddy bear returned from the annual spring tour on Monday. In the nine days of the tour, the Glee Club visited and performed in several places around the eastern part of the United States. After leaving Caltech at 8:30 a.m. on Satur­day morning, March 17, we arrived at Boston around 5 p.m. We were hosted by the members of the Harvard Men's Glee Club for the next three days. We had four concerts in Boston including one at the famous Old North Church where Paul Revere started his historic ride. We also had a concert for the alumni in Boston. Caltech Men's Glee Club's participation in the Harvard Glee Club's Spring Festival of the 16 participating performing groups was—and probably will continue to be—one of the most bizarre and unique cultural events Caltech has ever been involved in. The event, officially named as "Monkey Eating Peach, Rat Stealing Pumpkin, Phoenix Among the Peonies" and directed by Peter Sellers, featured performances by more than two groups at a time. The simultaneous performance of a play, dance, singing groups, marching band, etc. by 300 performers was appreciated by about 500 spectators. A brief noon concert at M.I.T. was postponed indefinitely due to bad weather.

On Tuesday, we were in Brook­field, Conn., the hometown of Scott Karlín. The concert at Scott's former high school was a success (and it was nice to see all those relatives of Scott.) Many thanks to the warm hospitality of the people of Brookfield. We were in New York City by the next day and enjoyed a day off. On Wednesday and Thurs­day, despite the snow, local clubs could easily be spotted in the wilderness of N.Y.C.—in the Washington Square Arch, the Metropolitan Museum of Art, Wall Street, Greenwich Village, Times Square, etc. The group also gave a singing lesson to the cadets of the New York City Police Force, Military Academy and the Coast Guard Academy in a joint performance at the New York City Glee Club meeting.

We arrived at Princeton University the next morning. Erick Kovaar, a former Page Boy and the president of the Princeton University Chapel Choir, was the first one to welcome us. After the evening concert in the third largest university chapel in the world, we spent the night with members of the Chapel Choir, and some of us even went to parties. After an early departure from Princeton, we stopped by Chincoteague Island Wildlife Preservation Area. Driving over a 20 mile long bridge over Chesapeake Bay was quite an experience. We finally arrived in Williamsburg in the late afternoon and had an evening concert in Bruton Parish Church. The historic main chapel of Williamsburg during the Colonial era. Unfortunately, we had to leave Williamsburg soon after the concert because we were to perform in the Cathedral of William and Mary, D.C., the next morning.

On Thursday, the most beautiful city we went to during this tour. In contrast to the snow and cold weather we had in Boston, we could feel that the front edge of spring was already here in Washington, D.C. The Grass was greener, and there were some early flowers coming the coming of spring. The performance at the morning service of the National Cathedral was quite memorable. Not only is it one of the largest cathedrals in the world, but it has numerous masterpieces of art and architecture. Most of us spent the afternoon touring the Smithsonian Museums. The last concert of the tour was at Cowlesville United Presbyter­ian Church that evening. Many alumni and friends came to the concert, and we probably gave the special thanks to everyone who made this trip possible and to all those wonderful hosts of the East coast.

The Caltech Men's Glee Club performs Caltech's Alma Mater for New Yorkers in front of the World Trade Center. Photo by Mark Carlin atop the World Trade Center

weekly Sports Calendar

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Beavers Put it Together

by Doug Ouel

The spring break was a rewarding one for the Beavers. In exciting baseball action, Caltech added two more victories to its record, beating Christ College 13-11 and trouncing Pacific Coast Baptist Bible College 10-2.

The Beavers put it all together in the first game of a doubleheader against PCBBC. Caltech's offense clobbered the PCBBC pitching staff, while Jim Harnick hurled a three hitter for the Beavers. In the top of the first, Caltech drew first blood, scoring two runs on Pat Harrison's single. PCBBC countered with a run in their half of the first and another run in the third. The Beavers then kicked off their offense into high gear, and pounded festivities with a single. An error and two walks later, Pat Harrison ripped a double to deep left field, scoring two runs. Caltech rounded out the scoring for the day by picking up two more runs in the fifth on some sloppy play by PCBBC.

In the second game, the Beavers learned the meaning of the old baseball adage, "You can't sweep a double header unless you win both games." PCBBC turned the tables on Caltech, winning 13-3. Kurt "Turbo" Schwartz carried Caltech offensively, getting three hits in four at bat. Brett Bush also hit a timely double to drive in two runs for Caltech, and Ed Casey picked up two hits in five at bat.

Christ College was Caltech's next victim. The Beavers piled up 11 runs in five innings against Christ. Marty Hunt had a great day, driving in four runs with a home run and two singles. Steve Havstad also drove in two with a triple and a double, while running wild and stealing four bases. Bob Mostert collected two singles and a triple in four trips to the plate. Pat Harrison batting average was 2 out of 4. Michael Keating rounded out the fireworks for the day, collecting two hits in five at bat, and stealing two bases. Caltech nearly fell prey to the late-closing bats of Christ College, but managed to keep Christ down long enough to win 13-11.

The Beavers met the Wisconsin Whitewater Warhawks in a Monday doubleheader and were thashed in the first game, giving up three touchdowns on route to a 21-3 loss. Pat Harrison was also Caltech's leading offensive threat once again, collecting two hits in two at bat. The Beavers played a good game in the second half of the doubleheader except in the third inning, when Whitewater scored nine runs. Caltech recovered and lost 12-3.

The Beavers travel to Irvine to play Christ College on Saturday and hope to be on a winning track before restarting the league season.
Imagine the career you want. 
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The author wishes it to be known that the efforts of the large body of faithful followers of this column who have petitioned so earnestly for the appearance of more of the invaluable proofs which have earlier flourished here are not going unnoticed. The problem, far from being one of a lack of tenable proofs, is simply that the business of presenting counterintuitive concepts is at best a risky undertaking in our culture. Many of the more reactionar­
ionary members of this society have expressed a positive dis­comfort with regard to such concepts as "Caltech does not exist." "The end of the world is coming," and "All assumptions are true." It has long remained my firm conviction, and I have stated it as such, that the inability of certain persons to accept this admittedly novel method of syllogistic construction in no way constitutes evidence against its validity. The fact that what I propose in this column is unusual does not mean that it is wrong. Nevertheless, my primary purpose is to open the eyes of the pop­ulation to these new concepts, not to frighten them away, and toward this end I have spent considerable time reassessing my pedagogic strategy.

I have at last concluded that a somewhat gentler manner of presentation may be in order. Never fear, faithful scholars: I am horse-bound not to sacrifice rigor for clarity. The only change evident will be an increased vulgarization, or drive at mass ap­peal, of the concepts discussed herein. At no time have I enter­tained the notion of undermining my self-appointed task in order to placate my less imaginative readers. I might note at this time that it has been hinted by some that my proofs would find wider acceptance were they diluted to the caliber of the old chestnut: You are not here. You are somewhere else. But if you are somewhere else, then

You are not here. To those who would recommend such an adulteration of pure logic, I reply simply: I wish you were not here.

To give an example of the sort of "vulgar" proof I wish to present, let us consider a familiar axiom:

First, we are told that

(1) There's one in every crowd.

Second, we are now told that (2) There's three.

I am certain that even readers of the most immutable conser­vatism cannot but be persuaded by the elegance and simplicity of this proof. I take a measure of what I feel to be justifiable glee in the realization that I have no doubt won over many new supporters with this argument. Consequently, I shall strive to present more such proofs in the immediate future.
**Much Ado About Renaissance Music**

Musicians are needed for Shakespeare's Much Ado About Nothing. If you can play an instrument, please join us in preparing this masterful Renaissance instrument, stop by the drama office and leave your name and a number where you can be reached. For more information, contact Anita Nardin at 796-0331.

**Tokyo String Quartet**

Volunteer Raphael Hilliger joins the Tokyo String Quartet in concert, Sunday, April 1 at 8 p.m. in Beckman Auditorium. This concert is one in the series of Coleman Chamber Music Concerts.


Violinist Kikuei Ikeda, violinist Kazuhide Isomura and cellist Isao Harada were trained at the Tokyo Music Academy. Violinist Peter Ouzman, who joined the ensemble in 1981, is a native of Toronto and received his Master's Degree from Juillard.

The Tokyo String Quartet has performed over 1,500 concerts on five continents and has made numerous recordings since its formation in 1969. In 1970 the quartet won the Coleman Chamber Ensemble Competition.

Fifty free tickets and 50 tickets at $4.00 each are available to students with a Caltech student ID (limit 1 free ticket and 1 ticket at $4 student pricing). All available at the Caltech Ticket Office. Regular tickets are $15.50-55.00-9.00. For information, call x426.

**BADJ**

Several shows have shown up in the KKAL schedule. If you are interested in imposing your musical taste on the audience, dial 577-8407 and ask for Jim.

**Political Interment**

The Beckman Internship Public Relations will be available for the summer of 1984. This internship, supported by friends of Dr. Beckman, pays a stipend of $2,600 plus travel expenses. It allows a selected Intern to spend the summer working in the office of a politician and to see the process of government from the inside. The Intern is expected to make arrangements with the appropriate political persons. It is open to any Tech who intends to be a Caltech undergraduate next year. If interested, contact David Wales at the Deans' Office, x6351, by Monday, April 2nd.

**Stamp Out Rubella**

Measles, rubella and mumps immunizations are available on American campuses. A concerted immunization effort is being made to prevent and control these diseases. Starting Tuesday, April 3 and continuing through April 19, 9:00 am until 12 noon and 6:00 pm until 9:00 pm weekdays, the Health Center is offering free rubella vaccinations to students. We hope you will take advantage of the information on rubella and the need for establishment of immunity to this disease. This information will be circulated on campus during the next couple of weeks. Additional information can be obtained by calling ext. 6393 or stopping by the Health Center.

**Leadership Talk**

Dr. Robert Lucky, Executive Director, Research Communications Sciences Division, AT&T Bell Laboratories, will talk about a scientific environment, Tues. 3-10. Get your ticket in Dabney Lounge. Pizza and soft drinks after the talk. The talk is sponsored by AMETEK Corporation.

**Shabbat**

Come celebrate the end of the first week of the term at Sabbath services. Sponsored by Rabbi Ellen, 5:30-6:00 p.m. tonight in the Y Lounge, Winnet Center.

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**Health Reps Exist!**

Have you ever wondered who you should talk to when you had a concern or perhaps a suggestion to offer regarding the Caltech Health Center? Well, there are two of us! The undergraduate representative of the Health Committee is Susan Chan, who can be reached at Lockheed House, Rm. 229, Mail Code 1-54, x6180 or x3775. George Carman is the graduate student representative and can be reached at Beckman Labs, Rm 322, Mail Code 216-76, x6824. Please feel free to drop by.

**Work in Japan**

A Caltech alum is offering two jobs in his Japanese factory for the summer. Travel, room and salary provided. Students will be doing basic factory work. If interested, see David Wales in 212 Parsons-Gates, or Sally Ausmudson in 08 Parsons-Gates.

**Caltech Buyit**

Would you like to live in the Caltech Buyit next year? The members of the Buyit observe the Jewish holidays, keep Kosher, and generally create a modern Jewish atmosphere. If you would like to be invited to dinner and learn more about the Buyit, please call Albert, Alvin, Israel, or Judy at 793-3859.

**Pictures Due Soon**

Senior Pictures for the Big 7 are due Friday, April 13. The photos should be black and white glossyes 3x5 and 8x11, and should be turned in to 107 Winnet. Call Roger Fong (x9661) for more information.

**Calliope**

Calliope: A Renaissance Band will perform the West Coast Premier of Peter Schickele's "Bestiary," Saturday, March 31 at 8 p.m in Beckman Auditorium.

In the fall of 1980 the members of Calliope met with Schickele to discuss a commissioned piece for the group. The result was "Bestiary," above which Schickele has written, "...When the members of Calliope approached me about commissioning a music theater piece, a picture popped into my mind: the krummhorn as an elephant's trunk."

Among other pieces on Calliope's program will be the anonymous "Chominciamento di giaio,", Burgundian Band Music, and Dance published by Pierre Attainmont.

Calliope is made up of four costumed musicians who perform on more than 40 replicas of Renaissance-era instruments. Members of the ensemble are Lucy Bardo, Lawrence Benz, Allan Dean, and Margaret Hansell.

Caltech student prices for this concert: $6.50-6.00-5.50-5.00; $4.00 rush ticket will go on sale beginning one hour prior to performance time (subject to availability).

Tickets for Caltech faculty and staff are priced at $12.11-11. All tickets are available at the Caltech Ticket Office, located just north of the Beckman Auditorium parking lot. For information, call campus ext. 4652.

**Contribute to Totem**

There are only a few more students left to contribute to this year's Totem! Send your contributions to David Sahnow, 1-55.